

Aangemaakt: 01-01-1970

# HYAEON

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<https://www.innoenergy.com/discover-innovative-solutions/online-marketplace-for-energy-innovations/hyaeon/>  
Maskinvej 5  
2860

<https://www.hymeth.com/>

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## De Challenge

Sustainable hydrogen production is very expensive (as electrolyzers require a platinum or iridium-based catalyst), energy inefficient, large in size and they only compress hydrogen gas up to 35 bar.

## De Solution

A low-temperature alkaline electrolyser that is compact, lightweight and that supports high-pressure electrolysis. It includes radical innovations: a new non-precious alloy electrocatalyst, it is capable of delivering highly compressed gas and its lightweight and compact electrolyser reduces the space required.



## De Businesscase

- Expected to produce hydrogen at a cost reduction of up to 40% compared to existing alkaline electrolyzers.
- A state-of-the-art system for FC vehicle refilling stations, sustainable steel production, bio oil refinery, energy storage, etc.
- Lower capital expenses (capex) and operating expenses (opex).
- Highly efficient.

## About EIT InnoEnergy

EIT InnoEnergy operates at the centre of the energy transition and is the leading innovation engine in sustainable energy, bringing the technology and skills required to accelerate the green deal, progress towards Europe's decarbonisation goal, and improve energy security. Ranked as Europe's top impact investor in cleantech in 2022, named in 2023 as a top 10 active deeptech investor by Sifted, and recognised globally as the most active sustainable energy investor, EIT InnoEnergy backs innovations across a range of areas. These include energy storage, transport and mobility, renewables and sustainable buildings and cities – leveraging its trusted ecosystem of 1200+ partners and 29 shareholders.

EIT InnoEnergy is the driving force behind three strategic European initiatives which include the European Battery Alliance (EBA), the European Green Hydrogen Acceleration Center (EGHAC) and the European Solar Photovoltaic Industry Alliance.  
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